

### Abstract

An end device that includes an operating system that controls media manipulation is controlled to provide a quality of service specified by a user. An input specifying a demand for a quality of service is received. The quality of service provided is monitored to determine whether the quality of service provided meets the quality of service demanded. When the quality of service provided is less than the quality of service demanded, a software agent is used to assert dynamic control over the operating system to increase resources allocated to the media manipulation to improve the quality of service provided. A system includes an end device adapted to provide a quality of service specified by a user. The end device comprises an operating system, resources that operate in response to the operating system to perform tasks including media manipulation, and an input device. The input device is configured to receive parameters specifying a demand for a quality of service. The end device also includes monitor that monitors a quality of service provided to determine whether the quality of service provided meets the quality of service demanded. Finally, the end device includes a software agent that operates in response to the monitor and that, when the quality of service provided is less than the quality of service demanded, asserts dynamic process control over the operating system to increase an allocation of the resources to performing the media manipulation to improve the quality of service provided.